

APPENDIX B
CLAIMS CURRENTLY UNDER EXAMINATION

1. (amended) A barley plant containing a transposon integrated into its genome, wherein the transposon is selected from the group consisting of a Ds element and an Ac element.
2. (as filed) The plant of claim 1, wherein the transposon is an Ac element.
3. (as filed) The plant of claim 1, wherein the transposon is a Ds element.
4. (as filed) The plant of claim 3, further comprising an Ac element.
5. (as filed) The plant of claim 3, which lacks a nucleic acid sequence encoding an Ac transposase.
6. (as filed) The plant of claim 3, wherein the Ds element comprises a heterologous nucleic acid sequence.
7. (as filed) The plant of claim 6, wherein the heterologous nucleic acid sequence is a recombinant expression cassette.
8. (as filed) The plant of claim 1, wherein the transposon is integrated at a position to which the transposon has transposed.
9. (amended) A method of introducing a recombinant expression cassette into a barley plant, the method comprising introducing a Ds element comprising the expression cassette into the plant; and selecting the plant with the expression cassette integrated into its genome.
10. (as filed) The method of claim 9, wherein the Ds element is introduced into the plant using a sexual cross.

11. (as filed) The method of claim 9, wherein the Ds element is introduced into the plant using bombardment-mediated transformation of plant cells followed by regeneration of a plant from the cells.

12. (as filed) The method of claim 9, further comprising introducing a nucleic acid sequence encoding an Ac transposase into the plant.

13. (as filed) The method of claim 12, wherein the nucleic acid sequence encoding an Ac transposase is introduced by a sexual cross.

14. (as filed) The method of claim 12, wherein the nucleic acid sequence encoding an Ac transposase is in an Ac element.

15. (as filed) The method of claim 14, wherein the Ac element is linked to a negative selectable marker.

16. (as filed) The method of claim 15, wherein the negative selectable marker is *codA*.